IN THE CLAIMS

The claims are amended as follows:

- 1. (canceled)
- 2. (canceled)
- 3. (currently amended) The connector as claimed in claim 1 claim 11, wherein the coupling member comprises a sleeve projecting forwardly from the forward end of the first module for receiving the forward end of the second module in the mated position, the chamber being defined within the sleeve.
- 4. (currently amended) The connector as claimed in claim 2 claim 11, wherein sealing means are provided between the coupling sleeve and each module in the mated position for sealing opposite ends of the chamber, the sealing means comprising at least one said seal member between the coupling sleeve and first module and at least one seal member between the coupling sleeve and second module.
- 5. (original) The connector as claimed in claim 4, wherein the sealing means comprises two seal members between the coupling sleeve and each module.
- 6. (original) The connector as claimed in claim 5, wherein the seal members comprise O-ring seals.
- 7. (original) The connector as claimed in claim 4, wherein the seal members each form a pressure seal that can support a pressure differential.
- 8. (currently amended) The connector as claimed in claim 1 claim 11, wherein the modules have interengageable snap lock formations for releasably securing the modules together in the mated position.

9. (original) The connector as claimed in claim 8, wherein the coupling member holds the interengageable formations of the modules in locking engagement in the mated position.

10. (canceled)

- 11. (currently amended) The connector as claimed in claim 10, wherein A dry mate connector, comprising:
 - a first module having a forward end and a rear end;
 - a second module having a forward end and a rear end;
- <u>a coupling member mounted on the first module for releasably securing the modules together in a mated position;</u>

the modules and coupling member being relatively movable in a single axial mating motion between an unmated position and a mated, locked position and being movable relative to one another in a single axial unmating motion opposite to the mating motion to release the modules from one another;

the coupling member and mated modules together forming a closed, locked and sealed chamber; and

the first and second modules each having at least one forwardly facing contact for communication with the contact of the other module within the chamber in the mated position;

the coupling member being movable relative to the first module between a first locking position when the modules are unmated and a second locking position when the modules are mated;

the coupling member and first module having opposing inner and outer surfaces, respectively, one of said surfaces having a locking detent and the other of said surfaces having first and second spaced locking members for releasable locking engagement in the locking detent in the first and second locking positions, respectively; and

the first locking member comprises comprising a seal member for sealing engagement between said coupling member and first module when not engaged in said locking detent, said first locking member forming a seal at one end of said chamber in the mated position.

- 12. (currently amended) The connector as claimed in claim 10, wherein The connector as claimed in claim 10, wherein A dry mate connector, comprising:
 - a first module having a forward end and a rear end;
 - a second module having a forward end and a rear end;
- <u>a coupling member mounted on the first module for releasably securing the modules together in a mated position;</u>

the modules and coupling member being relatively movable in a single axial mating motion between an unmated position and a mated, locked position and being movable relative to one another in a single axial unmating motion opposite to the mating motion to release the modules from one another;

the coupling member and mated modules together forming a closed, locked and sealed chamber; and

the first and second modules each having at least one forwardly facing contact for communication with the contact of the other module within the chamber in the mated position;

the coupling member being movable relative to the first module between a first locking position when the modules are unmated and a second locking position when the modules are mated;

the coupling member and first module having opposing inner and outer surfaces, respectively, one of said surfaces having a locking detent and the other of said surfaces having first and second spaced locking members for releasable locking engagement in the locking detent in the first and second locking positions, respectively; and

first, second and third seal members are provided for sealing engagement between the coupling member and first module, the first seal member comprising said first locking member for engagement in said detent in the first locking position, and said second seal member comprising said second locking member engaging in said locking detent in the second locking position, whereby the first and third seal members provide a double seal at one end of the chamber in the mated position.

- 13. (original) The connector as claimed in claim 12, wherein said seal members comprise O-ring seals.
- 14. (currently amended) The connector as claimed in claim 10, wherein A dry mate connector, comprising:
 - a first module having a forward end and a rear end;
 - a second module having a forward end and a rear end;
- <u>a coupling member mounted on the first module for releasably securing the modules together in a mated position;</u>

the modules and coupling member being relatively movable in a single axial mating motion between an unmated position and a mated, locked position and being movable relative to one another in a single axial unmating motion opposite to the mating motion to release the modules from one another;

the coupling member and mated modules together forming a closed, locked and sealed chamber; and

the first and second modules each having at least one forwardly facing contact for communication with the contact of the other module within the chamber in the mated position;

the coupling member being movable relative to the first module between a first locking position when the modules are unmated and a second locking position when the modules are mated;

the coupling member and first module having opposing inner and outer surfaces, respectively, one of said surfaces having a locking detent and the other of said surfaces having first and second spaced locking members for releasable locking

engagement in the locking detent in the first and second locking positions, respectively; and

the coupling member comprises a sleeve and spaced first, second, and third seal members are provided for sealing engagement between the coupling sleeve and first module, the first seal member comprising said first locking member engaging in said locking detent in the first locking position of said coupling sleeve and the second seal member comprising said second locking member engaging in said locking detent in the second locking position of said coupling sleeve, whereby the first and third seal members comprise two spaced seal members between the first module and coupling sleeve in the second locking position.

- 15. (original) The connector as claimed in claim 14, wherein said locking detent is located on the inner surface of said coupling sleeve and said seal members comprise spaced O-ring seals mounted on said first module.
- 16. (currently amended) The connector as claimed in claim 1 claim 11, wherein the first module has a plurality of resilient locking tines extending forwardly from its forward end, the tines having enlarged end portions, and the second module has an outer surface having an annular locking indent for releasable snap engagement with the enlarged end portions of the tines when the modules are moved into mating engagement.
- 17. (currently amended) The connector as claimed in claim 16, wherein said coupling member comprises a sleeve projecting forwardly from the first module for receiving the forward end of the second module during mating, the sleeve being movable relative to the first module during mating between a first, unmated position and a second, mated position, the sleeve having a detent an indent for alignment with said enlarged end portions when said coupling sleeve is in said first locking position, whereby said tines can flex over said second module when said second module is pushed into said coupling sleeve, and said detent indent in said sleeve is moved

away from said tines in said second mated position, whereby the inner surface of said coupling sleeve holds said enlarged end portions of said tines in said annular locking indent on the second module when said modules are in mating engagement.

- 18. (currently amended) The connector as claimed in claim 1 claim 11 wherein the contacts are electrical contacts.
- 19. (currently amended) The connector as claimed in claim 1 claim 11, wherein the contacts are optical contacts.
- 20. (original) A connector as claimed in claim 19, wherein a first ferrule is mounted in the first module and a second ferrule is mounted in the second module, each ferrule having a forward end face for face-to-face engagement with the forward end face of the other ferrule in the mated condition, the optical contacts being located at the forward end faces of the respective ferrules.
- 21. (original) The connector as claimed in claim 20, wherein a first, single fiber optical cable is secured to the rear end of the first module and a second, single fiber optical cable is secured to the rear end of the second module, a single optical fiber in the first cable extending through the first module and first ferrule up to said forward end face, the first fiber having a forward end comprising the first optical contact, a single optical fiber in the second cable extending through the second module and second ferrule up to said forward end face, the second fiber having a forward end comprising the second optical contact, whereby said connector comprises an in-line cable-to-cable connector.
- 22. (original) The connector as claimed in claim 19, wherein one of said modules includes means for securing the unit in a bulkhead and a cable is secured to the rear end of the other unit, whereby said connector comprises a bulkhead feedthrough connector.
- 23. (currently amended) The connector as claimed in claim 1

wherein the coupling member and second module each have a single outer gripping surface for gripping by a user when moving the modules in both the mating and unmating motions.

- 24. (currently amended) The connector as claimed in claim 1 claim 11 wherein the first module has a plurality of first contacts seated therein and the second module has a plurality of second contacts seated therein equal in number to the number of first contacts, each first contact being in signal communication with a corresponding second contact in the mated position.
- 25. (canceled)
- 26. (currently amended) The connector as claimed in claim 25 claim 28, wherein the outer surface of the second module has an indent and a snap lock member extends forwardly from the forward end face of the first module for snap lock engagement in the indent when the modules are pushed into mating engagement.
- 27. (canceled)
- 28. (currently amended) The connector as claimed in claim 27, wherein A connector, comprising:
 - a first module;
 - a second module;
- a coupling sleeve slidably mounted on the first module for releasably securing the modules together in a mated position, the coupling sleeve having a forward end, a rear end, and a first through bore;

each module having a forward end and a rear end, the forward end of the coupling sleeve being spaced forwardly from the forward end of the first module and slidably receiving the forward end of the second module in the mated position;

- a first contact seated in the first module;
- a second contact seated in the second module;

the first contact being connected with the second contact in the mated position;

the modules each having outer surface portions located within the coupling sleeve in the mated position;

at least one seal member between the outer surface portion of each of the modules and the coupling sleeve through bore in the mated position to define a sealed chamber in the coupling sleeve between the seal members in which the contacts are located, whereby the chamber has a seal at each end to protect the contacts from the surrounding harsh environment when the connector is deployed; and

whereby relative movement between the modules in a single, first direction mates, locks and seals the modules in the mated position and relative movement in a single, second direction opposite to the first direction unlocks and releases the modules to allow them to be separated, the coupling sleeve and modules together forming a closed, locked and sealed chamber in the mated position;

the coupling sleeve having a first indent at a spacing from its rear end, and the first module having first and second spaced retention members spaced rearwardly from the forward end of the first contact, the coupling sleeve moving relative to the first module as the modules are mated together between a first, unmated position in which the first retention member engages in the first indent to retain the coupling sleeve on the first module, and a second, mated position when the modules are mated together in which the second retention member engages in the first indent; and

at least said first retention member comprises comprising a first seal member in sealing engagement with the inner surface of the coupling sleeve in said mated position in order to provide a seal at the rear end of the sealed cavity chamber.

29. (canceled)

- 30. (currently amended) The connector as claimed in claim 29 claim 28, wherein said second retention members member also comprises comprises a second seal members member when not engaged in said first indent.
- 31. (currently amended) The connector as claimed in claim 25 claim 28, wherein the first module has a snap lock member and the second module has an indent for

releasable snap engagement with said snap lock member when the modules are mated, the coupling sleeve having a second indent on its inner surface which is aligned with the snap lock member when the modules are separated, whereby the snap lock member is free to snap over the forward end of the second module and into the indent on the second module as the parts are mated, the second indent moving out of alignment with the snap lock member when the coupling sleeve moves into the second, mated position, whereby the snap lock member is locked in the indent on the second module by the coupling sleeve to hold the modules together.

32. (currently amended) The connector as claimed in claim 25 claim 28, wherein the first module has a plurality of first contacts seated therein and the second module has a plurality of second contacts seated therein equal in number to the number of first contacts, each first contact being in engagement with a corresponding second contact in the mated position.

33. (currently amended) A cable assembly, comprising:

an elongate cable having a first end and a second end and at least one circuit extending through said cable;

a first connector half secured to the first end of the cable;

a second connector half secured to the second end of the cable; each connector half containing a contact communicating with said circuit, and comprising one half of a releasably mateable connector; and

an outer, fluid-filled hose extending over said cable and having a first end sealed to the first connector half and a second end sealed to the second connector half;

a coupling sleeve slidably mounted on the first connector half for releasably securing the first connector half to a second connector half on another cable in a mated position, the coupling sleeve having a forward end, a rear end, and a first through bore, the forward end of the coupling sleeve being spaced forwardly from the forward end of the first connector half and slidably receiving the forward end of a second connector half in the mated position;

a first contact seated in the forward end of the first connector half, a second contact mounted in said second connector half for communication with the corresponding first contact in a mating first connector half on a further cable when the connector halves are mated together;

the circuit extending through the cable and having opposite ends comprising said contacts;

the first connector half and coupling sleeve of a first cable and the second connector half of a second cable together forming a closed, locked and sealed chamber in a mated position, the connector halves and coupling sleeve being relatively movable in a single axial mating motion between an unmated position and the mated position, and being movable relative to one another in a single axial unmating motion opposite to the mating motion to release the connector haves from one another;

the coupling member and first module having opposing inner and outer surfaces, respectively, one of said surfaces having a locking detent and the other of said surfaces having first and second spaced locking members for releasable locking engagement in the locking detent in the first and second locking positions, respectively; and

the first locking member comprising a seal member for sealing
engagement between said coupling member and first module when not engaged in said
locking detent, said first locking member forming a seal at one end of said chamber in
the mated position.

- 34. (original) The assembly as claimed in claim 33, wherein the hose has a central, collapsible section for allowing the hose to be collapsed axially to expose the cable ends for assembly of the fiber into the connector halves.
- 35. (original) The assembly as claimed in claim 34, wherein the collapsible section comprises an accordion-like structure.
- 36. (original) The assembly as claimed in claim 34, wherein the hose is formed in three separate parts, comprising a first hose portion extending from the first connector half, a

second hose portion extending from the second connector half, and said collapsible section connecting said first and second hose portions.

- 37. (canceled)
- 38. (canceled)
- 39. (canceled)
- 40. (canceled)
- 41. (currently amended) The connector as claimed in claim 40, wherein A dry mate connector, comprising:
 - a first module having a forward end and a rear end;
 - a second module having a forward end and a rear end;

a coupling sleeve mounted on the first module for releasably securing the modules together in a mated position, the coupling sleeve having a forward end spaced forwardly from the forward end of the first module for receiving the forward end of the second module in the mated position, a rear end, and a first through bore defining a contact chamber;

the modules each having at least one forwardly facing contact for communication with the contact of the other module within the contact chamber of the coupling sleeve in the mated position;

at least one seal member located between each module and the through bore of said coupling sleeve in the mated position to seal opposite ends of said contact chamber;

a releasable locking mechanism for locking the modules together in the mated position, relative movement between the modules and coupling sleeve in a single, axial mating direction achieving mating and locking of said modules together, and relative movement between the modules and sleeve in a single, axial unmating direction

opposite to said mating direction releasing said locking mechanism and allowing separation of said modules;

the modules have interengageable locking formations which are in releasable, locking engagement to secure the modules together in the mated position;

the coupling sleeve being movable on the first module between a first locking position when the modules are unmated and a second locking position when the modules are mated;

the coupling sleeve having an inner surface and the modules having outer surface portions facing said inner surface in the mated position, one of the opposing inner and outer surfaces of the coupling sleeve and first module having a locking indent and the other of said surfaces having a pair of spaced locking members for releasable locking engagement in said locking indent in the first and second locking positions, respectively; and

at least said locking member engaging said locking indent in said first locking position comprises comprising a first seal member for sealing engagement between said coupling sleeve and first module when not engaged in said locking indent.

- 42. (currently amended) The connector as claimed in claim 40 claim 41 wherein the coupling sleeve holds the interengageable formations of the modules in locking engagement when in the second locking position.
- 43. (currently amended) The connector as claimed in claim 40 claim 41 wherein spaced first, second, and third seal members are provided for sealing engagement between the coupling sleeve and first module, the first seal member engaging in said locking indent in the first locking position of said coupling sleeve and the second seal member engaging in said locking indent in the second locking position of said coupling sleeve, whereby the first and third seal members comprise two spaced seal members between the first module and coupling sleeve in the second locking position.

- 44. (original) The connector as claimed in claim 43, wherein said locking indent is located on the inner surface of said coupling sleeve and said seal members comprise spaced O-ring seals mounted on the outer surface of said first module.
- 45. (currently amended) The connector as claimed in claim 38 claim 41 wherein two spaced seal members are located between each module and the through bore of said coupling sleeve in the mated position to provide a double seal at each end of said contact chamber.
- 46. (original) The connector as claimed in claim 45, wherein said seal members comprise O-ring seals.
- 47. (currently amended) The connector as claimed in elaim 39 claim 41, wherein the first module has a plurality of resilient locking tines extending forwardly from its forward end, the tines having enlarged end portions, and the second module has an annular locking indent on its outer surface for releasable snap engagement with the enlarged end portions of the tines when the modules are moved into mating engagement.

 48. (original) The connector as claimed in claim 47, wherein said coupling sleeve has a detent an indent aligned with said enlarged end portions when said coupling sleeve is in said first locking position, whereby said tines can flex over the outer surface of said second module when said second module is pushed into said coupling sleeve, and said detent indent in said sleeve is moved away from said enlarged end portions of said tines in said second locking position, whereby the inner surface of said coupling sleeve holds said enlarged end portions of said tines in said detent annular locking indent when said plug and receptacle modules are in mating engagement.
- 49. (currently amended) The connector as claimed in claim 38 claim 41 wherein each of said modules has a plurality of contacts for engagement with corresponding, aligned contacts in the other module in said mated position.

- 50. (currently amended) The connector as claimed in claim 38 claim 41 wherein said seal members comprise O-ring seals.
- 51. (currently amended) The connector as claimed in claim 38 claim 41, wherein the contacts comprise co-axial cable wire ends, and the connector comprises a co-axial electrical cable connector.